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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/741,106

DATE: 12/20/2001
 TIME: 11:30:48

Input Set : N:\Crf3\RULE60\09741106.txt
 Output Set: N:\CRF3\12202001\I741106.raw

SEQUENCE LISTING

- 4 (1) GENERAL INFORMATION:
 6 (i) APPLICANT: Innis, Michael
 7 Creasey, Abla
 9 (ii) TITLE OF INVENTION: Chimeric Proteins
 11 (iii) NUMBER OF SEQUENCES: 37
 13 (iv) CORRESPONDENCE ADDRESS:
 14 (A) ADDRESSEE: Chiron Corporation
 15 (B) STREET: 4560 Horton St.
 16 (C) CITY: Emeryville
 17 (D) STATE: CA
 18 (E) COUNTRY: USA
 19 (F) ZIP: 94608
 21 (v) COMPUTER READABLE FORM:
 22 (A) MEDIUM TYPE: Floppy disk
 23 (B) COMPUTER: IBM PC compatible
 24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30B
 27 (vi) CURRENT APPLICATION DATA:
 28 (A) APPLICATION NUMBER: US/09/741,106
 29 (B) FILING DATE: 12-Dec-2000
 30 (C) CLASSIFICATION:
 31 (vii) PRIOR APPLICATION DATA:
 32 (A) APPLICATION NUMBER: 08/286,521
 33 (B) FILING DATE: 1994-08-05
 35 (viii) ATTORNEY/AGENT INFORMATION:
 36 (A) NAME: Saveride, Paul B.
 37 (B) REGISTRATION NUMBER: 36,914
 38 (C) REFERENCE/DOCKET NUMBER: 0990.001
 40 (ix) TELECOMMUNICATION INFORMATION:
 41 (A) TELEPHONE: 510-601-2585
 42 (B) TELEFAX: 510-655-3542
 45 (2) INFORMATION FOR SEQ ID NO: 1:
 47 (i) SEQUENCE CHARACTERISTICS:
 48 (A) LENGTH: 51 amino acids
 49 (B) TYPE: amino acid
 50 (C) STRANDEDNESS: single
 51 (D) TOPOLOGY: linear
 53 (ii) MOLECULE TYPE: peptide
 58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 59 Cys Ala Phe Lys Ala Asp Asp Gly Pro Cys Lys Ala Ile Met Lys Arg
 60 1 5 10 15
 61 Phe Phe Phe Asn Ile Phe Thr Arg Gln Cys Glu Glu Phe Ile Tyr Gly
 62 20 25 30
 63 Gly Cys Glu Gly Asn Gln Asn Arg Phe Glu Ser Leu Glu Glu Cys Lys
 64 35 40 45
 65 Lys Met Cys

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70 50
72 (2) INFORMATION FOR SEQ ID NO: 2:
74 (i) SEQUENCE CHARACTERISTICS:
75 (A) LENGTH: 51 amino acids
76 (B) TYPE: amino acid
77 (C) STRANDEDNESS: single
78 (D) TOPOLOGY: linear
80 (ii) MOLECULE TYPE: peptide
85 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
87 Cys Leu Leu Pro Leu Asp Tyr Gly Pro Cys Arg Ala Leu Leu Leu Arg
88 1 5 10 15
90 Tyr Tyr Tyr Asp Arg Tyr Thr Gln Ser Cys Arg Gln Phe Leu Tyr Gly
91 20 25 30
93 Gly Cys Glu Gly Asn Ala Asn Asn Phe Tyr Thr Trp Glu Ala Cys Asp
94 35 40 45
96 Asp Ala Cys
97 50
99 (2) INFORMATION FOR SEQ ID NO: 3:
101 (i) SEQUENCE CHARACTERISTICS:
102 (A) LENGTH: 51 amino acids
103 (B) TYPE: amino acid
104 (C) STRANDEDNESS: single
105 (D) TOPOLOGY: linear
107 (ii) MOLECULE TYPE: peptide
112 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
114 Cys Phe Leu Glu Glu Asp Pro Gly Ile Cys Arg Gly Tyr Ile Thr Arg
115 1 5 10 15
117 Tyr Phe Tyr Asn Asn Gln Thr Lys Gln Cys Glu Arg Phe Lys Tyr Gly
118 20 25 30
120 Gly Cys Leu Gly Asn Met Asn Asn Phe Glu Thr Leu Glu Glu Cys Lys
121 35 40 45
123 Asn Ile Cys
124 50
126 (2) INFORMATION FOR SEQ ID NO: 4:
128 (i) SEQUENCE CHARACTERISTICS:
129 (A) LENGTH: 54 amino acids
130 (B) TYPE: amino acid
131 (C) STRANDEDNESS: single
132 (D) TOPOLOGY: linear
134 (ii) MOLECULE TYPE: peptide
139 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
141 Cys Arg Leu Gln Val Ser Val Asp Asp Gln Cys Glu Gly Ser Thr Glu
142 1 5 10 15
144 Lys Tyr Phe Phe Asn Leu Ser Ser Met Thr Cys Glu Lys Phe Phe Ser
145 20 25 30
147 Gly Gly Cys His Arg Asn Arg Ile Glu Asn Arg Phe Pro Asp Glu Ala
148 35 40 45
150 Thr Cys Met Gly Phe Cys
151 50

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153 (2) INFORMATION FOR SEQ ID NO: 5:
 155 (i) SEQUENCE CHARACTERISTICS:
 156 (A) LENGTH: 51 amino acids
 157 (B) TYPE: amino acid
 158 (C) STRANDEDNESS: single
 159 (D) TOPOLOGY: linear
 161 (ii) MOLECULE TYPE: peptide
 166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 168 Cys Leu Thr Pro Ala Asp Arg Gly Leu Cys Arg Ala Asn Glu Asn Arg
 169 1 5 10 15
 171 Phe Tyr Tyr Asn Ser Val Ile Gly Lys Cys Arg Pro Phe Lys Tyr Ser
 172 20 25 30
 174 Gly Cys Gly Asn Glu Asn Asn Phe Thr Ser Lys Gln Glu Cys Leu
 175 35 40 45
 177 Arg Ala Cys
 178 50
 180 (2) INFORMATION FOR SEQ ID NO: 6:
 182 (i) SEQUENCE CHARACTERISTICS:
 183 (A) LENGTH: 51 amino acids
 184 (B) TYPE: amino acid
 185 (C) STRANDEDNESS: single
 186 (D) TOPOLOGY: linear
 188 (ii) MOLECULE TYPE: peptide
 193 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 195 Cys Tyr Ser Pro Lys Asp Glu Gly Leu Cys Ser Ala Asn Val Thr Arg
 196 1 5 10 15
 198 Tyr Tyr Phe Asn Pro Arg Tyr Arg Thr Cys Asp Ala Phe Thr Tyr Thr
 199 20 25 30
 201 Gly Cys Gly Asn Asp Asn Asn Phe Val Ser Arg Glu Asp Cys Lys
 202 35 40 45
 204 Arg Ala Cys
 205 50
 207 (2) INFORMATION FOR SEQ ID NO: 7:
 209 (i) SEQUENCE CHARACTERISTICS:
 210 (A) LENGTH: 37 amino acids
 211 (B) TYPE: amino acid
 212 (C) STRANDEDNESS: single
 213 (D) TOPOLOGY: linear
 215 (ii) MOLECULE TYPE: peptide
 220 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 222 Lys Lys Gly Phe Ile Gln Arg Ile Ser Lys Gly Gly Leu Ile Lys Thr
 223 1 5 10 15
 225 Lys Arg Lys Arg Lys Gln Arg Val Lys Ile Ala Tyr Glu Glu Ile
 226 20 25 30
 228 Phe Val Lys Asn Met
 229 35
 231 (2) INFORMATION FOR SEQ ID NO: 8:
 233 (i) SEQUENCE CHARACTERISTICS:
 234 (A) LENGTH: 27 amino acids

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235 (B) TYPE: amino acid
236 (C) STRANDEDNESS: single
237 (D) TOPOLOGY: linear
239 (ii) MOLECULE TYPE: peptide
244 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
246 Ala Lys Ala Leu Lys Lys Lys Lys Met Pro Lys Leu Arg Phe Ala
247 1 5 10 15
249 Ser Arg Ile Arg Lys Ile Arg Lys Lys Gln Phe
250 20 25
252 (2) INFORMATION FOR SEQ ID NO: 9:
254 (i) SEQUENCE CHARACTERISTICS:
255 (A) LENGTH: 276 amino acids
256 (B) TYPE: amino acid
257 (C) STRANDEDNESS: single
258 (D) TOPOLOGY: linear
260 (ii) MOLECULE TYPE: peptide
265 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
267 Asp Ser Glu Glu Asp Glu Glu His Thr Ile Ile Thr Asp Thr Glu Leu
268 1 5 10 15
270 Pro Pro Leu Lys Leu Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp
271 20 25 30
273 Gly Pro Cys Arg Ala Ile Met Lys Arg Phe Phe Phe Asn Ile Phe Thr
274 35 40 45
276 Arg Gln Cys Glu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Gln Asn
277 50 55 60
279 Arg Phe Glu Ser Leu Glu Glu Cys Lys Lys Met Cys Thr Arg Asp Asn
280 65 70 75 80
282 Ala Asn Arg Ile Ile Lys Thr Thr Leu Gln Gln Glu Lys Pro Asp Phe
283 85 90 95
285 Cys Phe Leu Glu Glu Asp Pro Gly Ile Cys Arg Gly Tyr Ile Thr Arg
286 100 105 110
288 Tyr Phe Tyr Asn Asn Gln Thr Lys Gln Cys Glu Arg Phe Lys Tyr Gly
289 115 120 125
291 Gly Cys Leu Gly Asn Met Asn Asn Phe Glu Thr Leu Glu Glu Cys Lys
292 130 135 140
294 Asn Ile Cys Glu Asp Gly Pro Asn Gly Phe Gln Val Asp Asn Tyr Gly
295 145 150 155 160
297 Thr Gln Leu Asn Ala Val Asn Asn Ser Leu Thr Pro Gln Ser Thr Lys
298 165 170 175
300 Val Pro Ser Leu Phe Glu Phe His Gly Pro Ser Trp Cys Leu Thr Pro
301 180 185 190
303 Ala Asp Arg Gly Leu Cys Arg Ala Asn Glu Asn Arg Phe Tyr Tyr Asn
304 195 200 205
306 Ser Val Ile Gly Lys Cys Arg Pro Phe Lys Tyr Ser Gly Cys Gly Gly
307 210 215 220
309 Asn Glu Asn Asn Phe Thr Ser Lys Gln Glu Cys Leu Arg Ala Cys Lys
310 225 230 235 240
312 Lys Gly Phe Ile Gln Arg Ile Ser Lys Gly Gly Leu Ile Lys Thr Lys
313 245 250 255

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315 Arg Lys Arg Lys Lys Gln Arg Val Lys Ile Ala Tyr Glu Glu Ile Phe
316 260 265 270
318 Val Lys Asn Met
319 275
321 (2) INFORMATION FOR SEQ ID NO: 10:
323 (i) SEQUENCE CHARACTERISTICS:
324 (A) LENGTH: 23 amino acids
325 (B) TYPE: amino acid
326 (C) STRANDEDNESS: single
327 (D) TOPOLOGY: linear
329 (ii) MOLECULE TYPE: peptide
334 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
336 Lys Thr Lys Arg Lys Lys Gln Arg Val Lys Ile Ala Tyr Glu
337 1 5 10 15
339 Glu Ile Phe Val Lys Asn Met
340 20
342 (2) INFORMATION FOR SEQ ID NO: 11:
344 (i) SEQUENCE CHARACTERISTICS:
345 (A) LENGTH: 23 amino acids
346 (B) TYPE: amino acid
347 (C) STRANDEDNESS: single
348 (D) TOPOLOGY: linear
350 (ii) MOLECULE TYPE: peptide
355 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
357 Lys Lys Lys Lys Met Pro Lys Leu Arg Phe Ala Ser Arg Ile Arg
358 1 5 10 15
360 Lys Ile Arg Lys Lys Gln Phe
361 20
363 (2) INFORMATION FOR SEQ ID NO: 12:
365 (i) SEQUENCE CHARACTERISTICS:
366 (A) LENGTH: 17 amino acids
367 (B) TYPE: amino acid
368 (C) STRANDEDNESS: single
369 (D) TOPOLOGY: linear
371 (ii) MOLECULE TYPE: peptide
376 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
378 Ala Lys Leu Asn Cys Arg Leu Tyr Arg Lys Ala Asn Lys Ser Ser Lys
379 1 5 10 15
381 Leu
384 (2) INFORMATION FOR SEQ ID NO: 13:
386 (i) SEQUENCE CHARACTERISTICS:
387 (A) LENGTH: 15 amino acids
388 (B) TYPE: amino acid
389 (C) STRANDEDNESS: single
390 (D) TOPOLOGY: linear
392 (ii) MOLECULE TYPE: peptide
397 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
399 Thr Ser Asp Gln Ile His Phe Phe Ala Lys Leu Asn Cys Arg
400 1 5 10 15

VERIFICATION SUMMARY

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L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]